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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/608,057 | 06/30/2000 | Steve Kakouros | 10004812-1 | 9467 |

7590 12/20/2002
HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
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EXAMINER

CUFF, MICHAEL A

| ART UNIT | PAPER NUMBER |
|----------|--------------|
|----------|--------------|

3627

DATE MAILED: 12/20/2002

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/608,057

Applicant(s)

Kakouros et al.

Examiner

Michael Cuff

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— The MAILING DATE of this communication appears on the cover sheet with the correspondence address —

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Jun 30, 2000.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 5 6) ☐ Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Garg et al. in view of Salvo et al.

Garg et al. shows all of the limitations of the claims except for specifying that the planning of a safety stock level based on the use of product availability from the spot market and non-spot market.

Garg et al. shows, figures 1 and 2, an inventory system with an order generation module 34 which can transmit orders via the Internet (includes web sites). Figure 2 and the top of column 8 show a process loop with the following inputs; μ = mean demand/period (estimation of demand), δ = standard deviation of demand/period (uncertainty in demand/ stochastic simulation), l =lead time, r =review period length (exposure period), h =holding cost/unit/period (price inherent), p =shortage penalty/unit/period, K =ordering unit, f =fill rate, A =average cost/period (total cost inherent), EI =expected on-hand inventory, EB =expected back order level, and SS =safety stock

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level. When an optimal solution is achieved, then the solution including average cost per period, expected on-hand inventory, expected back order level, and safety stock level is output at 208.

Salvo et al. teaches, figure 1, a inventory management system where the inventory price source module 126 searches for and compares buying options in order to optimize purchase value. The inventory price source comprises at least one of economic indicators, economic models, commodity pricing indexes, spot market pricing, Dow Jones.TM. information, other market information, and other inventory price sources (non-spot market pricing). The control unit 114 stores and analyzes historical trends of inventory prices to determine analyzed inventory price trends.

Based on the teaching of Salvo et al., it would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify Garg et al. system to incorporate the inventory price source module of Salvo et al. as a source for many set of input values in the Garg et al. process which plans safety stock levels in order to optimize purchase value.


Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Do shows a system of interest..

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4. Any inquiry concerning this communication should be directed to Michael Cuff at telephone number (703) 308-0610.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1113. The fax phone number for this Group is (703) 872-9326. (After Final special fax number (703) 872-9327) The customer service number is (703) 872-9325.

 12/13/02
Michael Cuff
December 13, 2002